

SCSC Data Safety Initiative – WG Meeting 57

9th December 2020, Meet

Minutes

Attendees

Mike Parsons (MP) – AAIP, Divya Atkins (DA) – MCA, Martin Atkins (MA) – MCA, Paul McKernan (PMK) – DSTL, Mark Templeton (MT) – Qinetiq, Paul Hampton (PH) – CGI, Dave Banham (DB) – Blackberry, Lee Glazier (LG) – Rolls-Royce, Michael Green (MG) – Ecomergy, Louise Harney (LH) – Leonardo, Brent Kimberley (BK) – Durham

Apologies

Andy Williams (AW) – NewTechNo, Carl Tipton (CT) – Johnson Matthey, Jim Mateer (JM) – SQEP.

Agenda

1. Intro and Welcome
2. Download Map
3. Talk by LG from Rolls-Royce
4. Covid-19 and Data
5. Dark Data Update
6. Aims for 2021
7. Data Safety in the News
8. SCSC Events
9. Data Safety Tooling/Risk Ontology
10. AOB, etc.

NOTE: All comments or opinions in these notes are attributed only to individual attendees of the meeting, not to their respective organisations.

*[Note that actions are presented in the form **N.Mx** where **N** is the meeting number, **M** a reference number for the action raised in that meeting and **x** is an optional letter that differentiates related actions arising from the same discussion point].*

The meeting slides are available at: https://scsc.uk/file/gd/57th_DSIWG_Slides_v1-967.pptx

1. Introduction and Welcome

MP welcomed the group and especially the new members. Members then introduced themselves.

2. Download Map

MP showed the latest download map of the Data Safety Guidance document covering the last 11 months. There were lots of downloads in Europe, but surprisingly few in the US.

3. Talk by LG from Rolls-Royce

This was a very interesting talk given by LG explaining how Rolls-Royce uses data and AI techniques in the monitoring of engineering data from gas turbine engines on commercial aircraft. Many aspects were covered. The Rolls-Royce 5 checks philosophy looked particularly interesting and relevant.

4. COVID-19 and Data

The group considered the latest data-related issue with the Covid-19 pandemic, where the infection data apparently determining the last England-wide lockdown has been revised drastically downwards, suggesting that the lockdown may not have been needed. While this was likely to have been a prediction of some sort, it was massively more than actually happened.
<https://www.itv.com/news/2020-12-08/covid-did-boris-johnson-order-englands-coronavirus-lockdown-based-on-false-data>

5. Dark Data Update

PH presented slides on the update to the group position on Dark Data, https://scsc.uk/file/gd/Paul_-_Data_Safety_Guidance_and_Dark_Data_v1-966.pptx including introduction of four new data issues: “Known Unknowns”, “Unknown Unknowns”, “Volume” and “Interpretation”. There were also slides on “Data Issues mapped to loss of data property” and “Data Safety Issue Taxonomy”. The talk concluded with proposed updates to the Data Safety Guidance (DSG) document.

There was a discussion of handling of “Unknown Unknowns” and while it was agreed that steps should be taken to minimise these (i.e. to try and find out what they are), it was agreed that there will always be some, and handling these cases then becomes a matter of resilience engineering.

MP mentioned the Dark Data talk he will give to the AAIP at York on 10/12/20, https://scsc.uk/file/gd/Dark_Data_ABC_Slides_v2-963.pptx

6. Aims for 2021

MP noted proposed NH’s words for the guidance document regarding the Covid-19 pandemic and data, https://scsc.uk/file/gd/Nick_Hales_response_-_Covid-19_words_for_DSIWG_Final_sent_291120-964.docx

The group were asked to review and suggest any updates.

ACTION 57.1 (ALL): Suggest updates to NH contribution on Covid-19 and data

MT presented a list of candidate updates to the DSG, <https://scsc.uk/file/gd/UpdateCandidates3.3-965.pdf> and it was agreed that we all need to pick things off the list that we can do something about before next meeting. The potential updates include incidents which require a short summary to be written, and updates to existing text. If unsure of how to help, please contact MT, dsiwg@arcadeexperts.co.uk.

ACTION 57.2 (ALL): Select items from MT list, agree update with MT (dsiwg@arcadeexperts.co.uk) and propose changed text before next meeting.

7. Data Safety in the News

Missing flight data contributed to accident that made AC-130J unusable,
<https://www.airforcetimes.com/news/your-air-force/2016/06/04/missing-flight-data-contributed-to-accident-that-made-ac-130j-unusable>

8. SCSC Events

MP noted that SSS'21 is now online, spread over 3 afternoons and one evening, and is free to SCSC members <https://scsc.uk/e683>. It was noted that NH is giving a Covid-19 Data Safety paper at the symposium.

9. Ontology / Tooling

DB gave a quick update on the status of the Ontology work that could affect the DSG. The Ontology WG is having a discussion with the Object Management Group 10/12/20.

10.Minutes and action status

See table at end.

11.Next Meeting

Next meeting by Zoom 12th January 2021. MP to arrange.

12.Thanks

Special thanks to LG for the presentation. Thanks to all participants. Thanks to MP for chairing the meeting and taking the minutes.

13. AOB

DA mentioned that Julian Padget <masjap@bath.ac.uk> is organising an event next week (Monday and Tuesday mornings) for the ART-AI CDT: "The global AI standards landscape: an extended seminar". The full programme is at:
<https://cdt-art-ai.ac.uk/news/events/the-global-ai-standards-landscape-an-extended-seminar/>

Summary of Open Actions

Actions 44.1, 50.4, 52.1, 56.3, 56.4 were closed.

Ref	Owner	Description	Target Guidance Version
42.6	PH	Define the process to publish a document developed in Overleaf via Amazon	3.3
42.9	MP	Work out a matrix of data categories (previously 'types') and data properties (as per DB discussion)	N/A
43.4	MP	Write up a data focussed FMEA approach.	3.3
44.2	MP	To discuss with AK on how to get the Wikipedia article published	N/A
46.1	MP	Review the application of DSALs to higher level forms of aggregation	N/A
49.6	MT	Review Overleaf briefing material and aim to hold a briefing before end of March 2021 in the use of Overleaf in the production of the guidance.	N/A
50.5	DA	Start up the sub-group and initiate first teleconf	N/A
51.2	DA	provide access to the tool for all registered users.	N/A
53.1	MP	To talk to Kevin King about what we need to do in the guidance for digital twin.	3.3
55.1	MA	Create additional 'war story' for the Excel data loss for version 3.3 of the guidance. Now re-assigned to MA.	3.3
55.2	MP/MT/PH	Create appendix on Dark Data for version 3.3 of the guidance	3.3
56.1	PH	Consider linkage of Data Safety Properties to Dark Data types	3.3
56.2	DA	Consider impact of Dark Data on the Data Safety Tool	N/A
56.5	PH	Address Thor's comments on the guidance	3.3
56.6	PH	Consider suggested updates to the cover of V3.3, e.g. elephant with mask(!)	3.3
57.1	ALL	Suggest updates to NH contribution on Covid-19 and data	3.3
57.2	ALL	Select items from MT list, agree update with MT (dsiwg@arcadeexperts.co.uk) and propose changed text before next meeting.	3.3